City of Jacksonville, NC Phase II Stormwater Administrative Manual



City of Jacksonville P.O. Box 128 Jacksonville, NC 28541 Telephone: 91-938-5249 Fax: 910-938-5278

Approved by: Ronald F. Massey Interim City Manager

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City of Jacksonville Phase II Stormwater Administrative Manual

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Introduction

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, parking lots and streets, prevent stormwater from naturally soaking into the ground. As properties are developed in Jacksonville, the amount of rainwater soaking into the ground is reduced, thus adding more to the stormwater system. Unless properly managed, this increased stormwater runoff can create flooding, erosion and water quality problems. The water quality problems can include: polluted water supplies, loss of native vegetation or habitat, loss of aquatic species of fish and other wildlife, and the loss of safe recreational areas.

The City of Jacksonville's NPDES Phase II Stormwater Program was developed to protect our watershed and improve the nation's water resources from polluted stormwater runoff and in response to the City's Phase II stormwater permit. This permit became effective on March 1, 2007. In accordance with the terms of the permit, a Stormwater ordinance was adopted by City Council on February 3, 2009. With adoption of this ordinance, the City of Jacksonville became the permitting agency for those seeking stormwater permits for new development and redevelopment.

This administrative manual provides forms, checklist and other information which will serve as a guide to those seeking stormwater permits. Additional information in the form of the ordinance and the City of Jacksonville Design Manual are available upon request. Information can also be obtained by contacting the Stormwater Manager at 910-938-6446 or visiting the website at http://www.ci.jacksonville.nc.us/opencms/opencms/opencms/publicservices/Stormwater/

Overview of the City of Jacksonville Stormwater Permitting Process

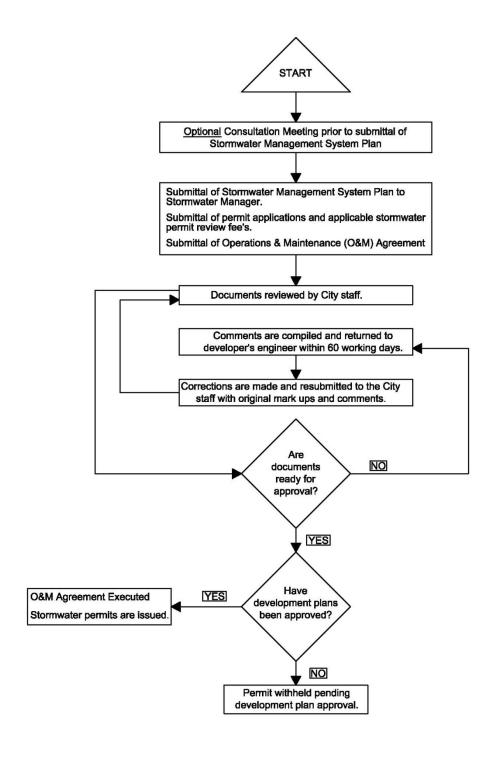
Upon submittal of sketch site plans to the City of Jacksonville, the developer will be presented with this Phase II Stormwater Administrative Manual which includes forms and documents necessary to submit a complete Stormwater Permit Application. The application and all necessary information should be submitted to the Planning Board.

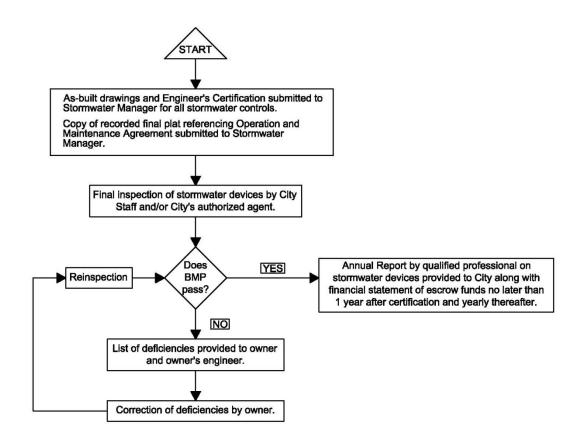
All forms and documents should be filled out completely and accurately in order for the Stormwater Manager and his/her authorized agent to review for issuance of a Stormwater Permit. The completed Operations and Maintenance Agreement (attached) shall be submitted with the application for approval of permit. No permit will be issued without a completed Operation and Maintenance Agreement.

An escrow account for maintenance of the Structural BMP's that are to be or are owned and maintained by a homeowners' association, property owners' association or similar entity shall be established. The design professional shall submit an estimate of construction costs and anticipated maintenance costs for review by the City of Jacksonville. This estimate shall be used by the City to establish the level to which the escrow account should be funded. Unless otherwise approved by the City, the escrow account is to be funded to an amount equivalent to the estimated construction cost(s) of the structural BMP(s). The initial funding of the escrow account by the developer shall be a minimum of 15% of the estimated construction costs of the Structural BMP's. Subsequent funding of the escrow account to its fully funded level shall be through deposits by the Owner/Developer or Association, if one exists, over the next 10 years from the date of certification.

Per the City's Phase II Stormwater Ordinance, the Stormwater Manager or his/her authorized agent has 60 working days in which to conduct the review once the application is considered complete. The Stormwater Manager or his/her authorized agent will notify the developer in a timely manner (generally within one week of receipt of the application) of any missing information. The 60 day review period will not begin until missing information is received. Once all required information is received, the Stormwater Manager or his/her authorized agent will review the submittal. The Stormwater Manager or his/her authorized agent may request additional information or plan revision, issue a Notification of Disapproval, or approve the plans (with or without conditions). If a Notification of Disapproval is issued, the applicant may resubmit a revised plan within 30 working days of disapproval without paying an additional permit review fee. However, if the revised plan is submitted after 30 days, or if the first resubmittal is disapproved, then an additional permit review fee will be charged. Within 30 calendar days resubmitted plans will be either approved (with or without conditions) or disapproved. Requirements for a Performance Security Bond (if required for a project) will be addressed in the approval letter accompanying the Stormwater Permit.

As described in the flow chart (attached), a stormwater permit shall be issued only after the application and accompanying documentation is complete and consistent with all applicable requirements. Additionally, issuance of the permit occurs only after overall development plans have been approved either through the staff level approval process or the City Council approval process.





City of Jacksonville

Stormwater Permitting and Inspection Fees

Adopted by the Jacksonville City Council on February 17, 2009

Application Fee	\$2	2,200
Re-submittal Fee (Note 1)	\$	500
Certification Inspection	\$	550
Re-Inspection (Note 2)	\$	475
Permit Renewal	\$	500
Permit Modification	\$^	1,500
Offsite Permit	\$1	.000

Notes:

- If a notification of disapproval is issued pursuant to receipt and review of a permit application by the City, the applicant may resubmit a revised plan within 30 working days of the disapproval without paying an additional application review fee. However, if the revised plan is submitted after 30 days, or if the first <u>re-submittal</u> is disapproved, then the re-submittal fee shall be paid for each subsequent re-submittal.
- 2. The City may conduct routine inspections; random inspections; inspections based upon complaints or other notice of violations; and joint inspections with other agencies inspecting under environmental or safety laws. If during an inspection it is determined that a BMP is not in compliance with the City of Jacksonville's ordinance, a re-inspection fee will charged for each inspection thereafter, until such time as the BMP becomes compliant.



Instructions for Submission of As-Built Plans

Upon completion of a project, and before a certificate of occupancy shall be granted, the applicant shall submit actual "as-built" plans for all stormwater management facilities or practices after final construction is completed.

The plans shall show the final design specifications for all stormwater management facilities and practices and the field location, size, depth, and planted vegetation of all measures, controls, and devices, as installed. A professional authorized by State law to design stormwater management measures and plans or the professional authorized by State law who did design the stormwater management measures and plans shall certify, under seal, that the as-built stormwater measures, controls, and devices are in compliance with the approved stormwater management plans and designs and with the requirements of this ordinance. A final inspection and approval by the Stormwater Manager shall occur before the release of any performance securities.



Instrument Prepared By: Brief Description for Index:	City of Jacksonville Attorney's Office
Parcel Identifier:	
Mail After Recording To:	City Attorney's Office
9	PO Box 128
	Jacksonville, NC 28541

STATE OF NORTH CAROLINA COUNTY OF ONSLOW

CITY OF JACKSONVILLE'S STORMWATER OPERATION, MAINTENANCE, EASEMENT AND ACCESS AGREEMENT FOR STRUCTURAL STORMWATER MANAGEMENT OF BMPS

THE CITY OF JACKSONVILLE'S STORMWATER OPERATION, MAINTEN	NANCE,
EASEMENT AND ACCESS AGREEMENT FOR STRUCTURAL STORMWATER M	IANAGEMENT
OF BMPS (the "Agreement") made this day of	, 20
, by and between	
whose address and telephone number are	,
(hereinafter referred to as "Developer")	
with, to and for the benefit of the CITY OF JACKSONVILLE, a municipal corporation of	of the State of
North Carolina, whose address is PO Box 128, Jacksonville, North Carolina 28541 (here	inafter referred
to as the "City"). Developer, or any subsequent successors and assigns are herein referre	ed to
collectively as the "Owners" and individually as "Owner".	

WITNESSETH

WHEREAS, the City, under various state and federal laws, is required to regulate the maintenance of Structural BMPs (as defined herein) constructed to serve new or re-development within the City's planning jurisdiction to ensure that, following initial construction, the Structural BMPs are operated, maintained, and to the extent necessary, repaired in accordance with applicable state and federal laws; and

WHEREAS, the City may be subject to substantial regulatory and financial penalties from the State of North Carolina and the federal government if the above-referenced rules and regulations are not applied to new or re-developments occurring within the planning jurisdiction of the City; and

WHEREAS, the City Council of the City of Jacksonville has determined that, to maintain the City of Jacksonville's compliance under applicable state and federal regulations, certain obligations are to be met by Developers and subsequent owners of Structural BMPs; and

WHEREAS, Developer is the owner in fee simple of that certain "Property" situated in Onslow County, North Carolina and more particularly described on Exhibit A; and

WHEREAS, the Property is located within the planning jurisdiction of the City and subject to certain stormwater standards set forth in Jacksonville City Ordinance 2009-07 (the "Ordinance"), as may be amended from time to time; and

WHEREAS, the Developer has submitted construction drawings depicting the Stormwater Area and Structural BMPs (both herein defined), for the purpose of establishing a stormwater management system for the Property, and

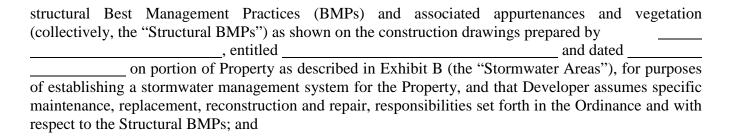
WHEREAS, these Structural BMPs are required to comply with the Ordinance and that failure to maintain the Structural BMPs is a violation of the Ordinance potentially subjecting each lot owner of the Property to significant daily civil penalties and other enforcement actions; and

WHEREAS, the City also requires that the Developer grant or dedicate to the City an access and maintenance easement over and across the Property and Stormwater Areas for the purpose of inspecting, maintaining, repairing, reconstructing and replacing the Structural BMPs set forth in the Ordinance and this Agreement; and

WHEREAS, this Agreement has been procured in accordance with the requirements of N.C. General Statutes Chapter 143, Article 21, Part 1 and Jacksonville City Ordinance 2009-07.

NOW, THEREFORE, for a valuable consideration, including benefits Developer may derive there from, the receipt of which is hereby acknowledged, the Owner and City hereby agree as follows:

- 1. RECITALS. The foregoing recitals shall constitute an integral part of this Agreement, and this Agreement shall be incorporated herein and made a part thereof.
- 2. PROPERTY. As required by the City in connection with the development of this Property, the Developer shall install engineered stormwater control structures and other stormwater



- 3. GRANT OF EASEMENT. Developer hereby dedicate, bargain, sell, grant, and convey unto the City, its successors and assigns, a perpetual, non-exclusive and irrevocable right and easement over, under, through, and across the Stormwater Areas and access through the Property to and from the Stormwater Areas for the purpose of permitting City inspection and, if deemed necessary, as determined by the City, maintenance, replacement, reconstruction, and repair of the Structural BMPs, as more fully set forth herein and in the Ordinance (the "Protection Easement"). Said easement shall be clearly identified and labeled on the approved final plat for Property. Said easements shall be permanent and shall run with the land.
- 4. CONSTRUCTION AND MAINTENANCE STORMWATER MANAGEMENT FACILITIES. The Developer shall be responsible for the construction of the Stormwater BMPs; and prior to conveying control of the Stormwater Area, their appurtenances and vegetation to another Owner by deed or easement, the Developer will be responsible for maintenance, repair, reconstruction, and replacement thereof in the manner specified herein and in strict compliance with the Stormwater Ordinance 2009-07 which is incorporated herein by reference and made a part thereof (the "Ordinance"). At all times, the Stormwater BMPs shall perform as designed and shall at all times comply with all applicable laws, ordinances, regulations, rules and directives of governmental authorities.
- 5. OWNERSHIP AND/OR TRANSFER OF PROPERTY AND STORMWATER AREAS. Developer agrees that it shall not transfer ownership and/or control of the Structural BMPs until construction has been completed in accordance with the Stormwater Permit, as defined in the Ordinance, approved Stormwater Areas and Structural BMPs plans, and the City has inspected and approved the same. In addition, the Developer and any new Owner must request that the Permit for the Structural BMPs be reissued to any subsequent Owner.

The Developer agrees that it shall not transfer, convey, assign or otherwise relinquish or release its responsibility for the operation and maintenance of its Structural BMPs until a Permit has been issued to Developer's successor, or new owner at which time Developer shall be released from any obligations hereunder arising from events or circumstances occurring after the date the Structural BMPs is transferred and the Permit is reissued to the new Owner of the Property; and

6. INSPECTION. The Developer, its successors and assigns, shall ensure that the Structural BMPs are inspected by one of the following professional services: Qualified Registered North Carolina Professional engineer, surveyor, landscape architect, soil scientist, aquatic biologist, or person certified by the North Carolina Cooperative Extension Service for Stormwater treatment practice inspection and maintenance (the "Professional"). The Professional shall submit the Annual Maintenance and Inspection Report found in the City of Jacksonville Stormwater Administrative Manual which may be amended from time to time, to the City. The inspection report shall be due annually 30 days from the date of the

final structural stormwater BMP construction inspection approval by the City. The inspection shall cover the entire Stormwater Area as well as any Structural BMPs.

- 7. USE OF PROTECTION EASEMENT. The City, its officers, employees, contractors and agents may access the Property and enter the Stormwater Areas for purposes of exercising City's rights hereunder. This Agreement shall in no way obligate the City to maintain, replace, reconstruct and repair the Structural BMPs, and the City shall not be liable to any person, firm, partnership, company, corporation, governmental agency, or entity for the condition or operation of the Structural BMPs. Further, this Agreement shall in no way diminish, limit, or restrict the right of the City to enforce any of its ordinances as permitted by law.
- 8. DEFAULT. If the Developer, or subsequent Owners shall fail to comply with the foregoing requirements or any other obligations imposed herein, in the Ordinance as the same may be amended from time to time, the City, in its sole discretion, may perform such work and recover the costs thereof from the person who is then responsible for the performance of such requirements and obligations provided, however, that, except in cases of emergencies, the City will give the Owner written notification of deadline for correcting the violation and an opportunity to cure the Owner's default hereunder. If the City exercises its right hereunder and maintains, repairs, reconstructs or replaces all or a portion of the Structural BMPs, then following acceptance and payment of the work, the City shall deliver to the Owner written notice of the costs of such work, and the Owner shall pay all such costs within forty-five (45) days after receipt of such notice. Any costs not paid by the Owner to the City within the forty-five (45) day period shall be delinquent, and the Owner shall be considered in default of this Agreement. In the event of such default, the City may either bring an action at law against the Owner for the cost of the work, plus interest at the rate of eight percent (8%) per annum, collection costs, and reasonable attorney fees, or foreclose a lien against the Property, or both.

Any payment required by this Agreement which is not paid to the City within thirty (30) days after its due date shall be delinquent. In the event of such default, the City may bring an action against the Owner for nonpayment plus interest at a rate of eight percent (8%) per year, collection costs, a late payment charge of three hundred dollars (\$300) during the first forty five (45) days of default and five hundred dollars (\$500) thereafter and reasonable attorneys' fees.

The remedies set forth herein are cumulative; the City may, for example, bring an action for collection and foreclose its lien claim.

- 9. RESERVATION BY RECORD OWNER. The Developer and its successors and assigns shall in all other respects remain the owner of the Property, subject to the Protection Easement, and may make all lawful uses of the Property not inconsistent therewith.
- 10. NO WAIVER OF RIGHT. The City does not waive or forfeit the right to take action to ensure compliance with the terms, conditions and purposes of this Agreement by a prior failure to act.
- 11. NOTICE. Written notice as required hereunder shall be provided to the City Manager of the City of Jacksonville at PO Box 128, Jacksonville, NC 28541, and to the Owner at ______

Written notice shall be deemed received four (4) days following its deposit, first class mail, with the United States postal system. In the event notice to the Owner is returned, the City may notify the Owner at the mailing address provided by the Onslow County Tax Assessor.

- 12. SUCCESSORS AND ASSIGNS. The designation of Developer and Owner shall include the heirs, assigns, and successors to the Developer and Owner. The designation of City shall include the assigns and successors to the City.
- 13. TERM. This Agreement shall continue as a servitude running in perpetuity with the Property.
- 14. CONTROLLING LAW. This Agreement is to be governed by the laws of the State of North Carolina. Any and all applicable laws, rules, and regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts will be construed pursuant to the laws of the State of North Carolina. All claims and disputes arising from any contract shall be construed pursuant to the laws of the State of North Carolina. The State of North Carolina is the proper jurisdiction for all claims and disputes arising under any contract and the proper venue is the Onslow County Superior Court.
- 15. INDEMNIFICATION. Developer and successors and assigns agree to protect, defend, indemnify and hold the City, its officers, employees and agents free and harmless from and against any losses, penalties, damages, settlements, costs, charges, professional fees or other expenses or liabilities in connection with or arising out of this Agreement and/or the performance hereof that are due to the negligent acts of the Developer, its officers, employees, or agents.

TO HAVE AND TO HOLD the aforesaid rights, privileges and easements herein to the City, its successors and assigns forever, and Developer does covenant that Developer are seized of said premises in fee or by easement and have the right to convey the same, the Developer will warrant and defend such title to the same against claims of all persons whosoever.

IN WITNESS WHEREOF, the Developer and City have executed this Agreement and under seal as of the day and year first above written.

DEVELOPER:	
By:	(SEAL
Name:	
Its:	(Title)

STATE OF NORTH CAROLINA COUNTY OF	DEVELOPER ACKNOWLEDGEMENT
personally came before me this day and	d acknowledged he/she is the (title)
(name of entity) a (circle one) corporat	ion, limited liability company, general partnership and the he/she so executed the foregoing instrument on behalf of said entity.
WITNESS my hand and officia	al stamp seal this the day of, 20
(SEAL)	Notary Public My Commission Expires:

	CITY OF JACKSONVI	LLE:
	By:	(SEAL)
	Name: Richard L. Woodr	uff
	Its: City Manager	(Title)
AT	TEST:	
	TEST: City Clerk	
STATE OF NORTH CAROLINA COUNTY OF ONSLOW		ΓΥ MANAGER OWLEDGEMENT
This is to certify that on the personally came acquainted, who, being by me duly swor City Manager of the City of Jacksonville foregoing; that she knows the corporate foregoing instrument is said corporate s thereto by the said City Clerk and that the body of said municipal corporation, and corporation.	s, the municipal corporation de seal of said municipal corpo eal, and the name of the mun ne said corporate seal was affi	escribed in and which executed the ration; that the seal affixed to the icipal corporation was subscribed xed, all by order of the governing
WITNESS my hand and official s	stamp seal this the da	y of
(SEAL)	Notary Public My Commission Expires:	
APPROVED AS TO FORM:		
City Attorney	 Date	

LIST OF EXHIBITS

Exhibit A "Property" Legal description of Property or Reference to recorded map

Exhibit B "Stormwater Area" – Description of Area where structural BMPs are to be constructed.

tormwater Operation and Maintenance Agreement - Association
<u></u>

Instrument Prepared By: Brief Description for Index:	City of Jacksonville Attorney's Office
Parcel Identifier:	
Mail After Recording To:	City Attorney's Office
C	PO Box 128
	Jacksonville, NC 28541

STATE OF NORTH CAROLINA COUNTY OF ONSLOW

CITY OF JACKSONVILLE'S STORMWATER OPERATION, MAINTENANCE, EASEMENT AND ACCESS AGREEMENT FOR STRUCTURAL STORMWATER MANAGEMENT OF BMPS AND ESCROW CONTRIBUTION CONTRACT

THE CITY OF JACKSONVILLE'S STORM EASEMENT AND ACCESS AGREEMENT FOR S	•	,
OF BMPS (the "Agreement") made this	day of	, 20
, by and between		,
whose address and telephone number are		,
(hereinafter referred to as "Developer") and		
,		
(hereinafter referred to as the "Association") with, to		
JACKSONVILLE, a municipal corporation of the Sta	ate of North Carolina, whose addre	ess is PO Box
128, Jacksonville, North Carolina 28541 (hereinafter	referred to as the "City"). Develo	per, Association,
Association members or any subsequent successors a	nd assigns are herein referred to co	ollectively as the
"Owners" and individually as "Owner".		

WITNESSETH

WHEREAS, the City, under various state and federal laws, is required to regulate the maintenance of Structural BMPs (as defined herein) constructed to serve new or re-development within the City's planning jurisdiction to ensure that, following initial construction, the Structural BMPs are operated, maintained, and to the extent necessary, repaired in accordance with applicable state and federal laws; and

WHEREAS, the City may be subject to substantial regulatory and financial penalties from the State of North Carolina and the federal government if the above-referenced rules and regulations are not applied to new or re-developments occurring within the planning jurisdiction of the City; and

WHEREAS, the City Council of the City of Jacksonville has determined that, to maintain the City of Jacksonville's compliance under applicable state and federal regulations, certain obligations are to be met by Developers and subsequent owners of Structural BMPs; and

WHEREAS, Developer is the owner in fee simple of that certain "Property" situated in Onslow County, North Carolina and more particularly described on Exhibit A; and

WHEREAS, the Property is located within the planning jurisdiction of the City and subject to certain stormwater standards set forth in Jacksonville City Ordinance 2009-07 (the "Ordinance"), as may be amended from time to time; and

WHEREAS, the Developer has submitted construction drawings depicting the Stormwater Area and Structural BMPs (both herein defined), for the purpose of establishing a stormwater management system for the Property, and

WHEREAS, these Structural BMPs are required to comply with the Ordinance and that failure to maintain the Structural BMPs is a violation of the Ordinance potentially subjecting each lot owner of the Property to significant daily civil penalties and other enforcement actions; and

WHEREAS, at the completion of the Structural BMPs, the Developer may convey the Structural BMPs and the Stormwater Area to the Association; and

WHEREAS, the City also requires that the Developer grant or dedicate to the City an access and maintenance easement over and across the Property and Stormwater Areas for the purpose of inspecting, maintaining, repairing, reconstructing and replacing the Structural BMPs set forth in the Ordinance and this Agreement; and

WHEREAS, this Agreement has been procured in accordance with the requirements of N.C. General Statutes Chapter 143, Article 21, Part 1 and Jacksonville City Ordinance 2009-07.

NOW, THEREFORE, for a valuable consideration, including benefits Developer and Association may derive there from, the receipt of which is hereby acknowledged, the Owners and City hereby agree as follows:

2. PROPERTY. As required by the City in connection with the development of this Property, the Developer shall install engineered stormwater control structures and other stormwater structural Best Management Practices (BMPs) and associated appurtenances and vegetation (collectively, the "Structural BMPs") as shown on the construction drawings prepared by _______, entitled _______ and dated _______ on portion of Property as described in Exhibit B (the "Stormwater Areas"), for purposes of establishing a stormwater management system for the Property, and that Developer and Association assume specific maintenance, replacement, reconstruction and repair, responsibilities set forth in the Ordinance and with respect to the Structural BMPs; and

and this Agreement shall be incorporated herein and made a part thereof.

RECITALS. The foregoing recitals shall constitute an integral part of this Agreement,

- 3. GRANT OF EASEMENT. Developer and Association hereby dedicate, bargain, sell, grant, and convey unto the City, its successors and assigns, a perpetual, non-exclusive and irrevocable right and easement over, under, through, and across the Stormwater Areas and access through the Property to and from the Stormwater Areas for the purpose of permitting City inspection and, if deemed necessary, as determined by the City, maintenance, replacement, reconstruction, and repair of the Structural BMPs, as more fully set forth herein and in the Ordinance (the "Protection Easement"). Said easement shall be clearly identified and labeled on the approved final plat for Property. Said easements shall be permanent and shall run with the land.
- 4. CONSTRUCTION AND MAINTENANCE STORMWATER MANAGEMENT FACILITIES. The Developer shall be responsible for the construction of the Stormwater BMPs; and prior to conveying control of the Stormwater Area, their appurtenances and vegetation to the Association by deed or easement, the Developer will be responsible for maintenance, repair, reconstruction, and replacement thereof. Following conveyance of the Stormwater Area to the Association, the Association and its members will be responsible for maintaining the Stormwater BMPs, their appurtenances and vegetation in the manner specified herein and in strict compliance with the Stormwater Ordinance 2009-07 which is incorporated herein by reference and made a part thereof (the "Ordinance"). At all times, the Stormwater BMPs shall perform as designed and shall at all times comply with all applicable laws, ordinances, regulations, rules and directives of governmental authorities.
- 5. OWNERSHIP AND/OR TRANSFER OF PROPERTY AND STORMWATER AREAS. Upon completion of the Structural BMPs, the Developer has the option to convey the Stormwater Area and that portion of the Property on which the structure is located to an Association to be formed for the purpose of administrating the provisions of a declaration of covenants to be imposed upon the Property, which declaration shall fully comply with all requirements of this contract as well as all applicable laws. The Declaration of Covenants, Conditions and Restrictions for Property, in reference to this Contract and all applicable stormwater laws, shall be subject to review and approval by the City of Jacksonville Attorney.

Developer agrees that it shall not transfer ownership and/or control of the Structural BMPs until construction has been completed in accordance with the approved Stormwater Areas, Structural BMPs plans and the Stormwater Permit, as defined in the Ordinance, the City has inspected and approved the

1.

same. In addition, the Developer and Association and any new Owner must request that the Permit for the Structural BMPs be reissued to any subsequent Owner.

The Developer and Association agree that it shall not transfer, convey, assign or otherwise relinquish or release its responsibility for the operation and maintenance of its Structural BMPs until a Permit has been issued to Developer and Association's successor, or new owner at which time Developer and Association shall be released from any obligations hereunder arising from events or circumstances occurring after the date the Structural BMPs is transferred and the Permit is reissued to the new Owner of the Property.

- 6. INSPECTION. The Owner, its successors and assigns, shall ensure that the Structural BMPs are inspected by one of the following professional services: Qualified Registered North Carolina Professional engineer, surveyor, landscape architect, soil scientist, aquatic biologist, or person certified by the North Carolina Cooperative Extension Service for Stormwater treatment practice inspection and maintenance (the "Professional"). The Professional shall submit the Annual Maintenance and Inspection Report found in the City of Jacksonville Stormwater Administrative Manual which may be amended from time to time, to the City. The inspection report shall be due annually 30 days from the date of the final structural stormwater BMP construction inspection approval by the City. The inspection shall cover the entire Stormwater Area as well as any Structural BMPs.
- 7. COST ESTIMATES FOR CONSTRUCTION OF STRUCTURAL BMPs. The Developer's Engineer shall submit an estimate of construction costs for review and approval by the City in accordance and regulations with the Ordinance. This cost estimate will be used to establish the level to which the escrow account shall be funded.
- 8. ESCROW ACCOUNT. For purposes of insuring the availability of funds for the replacement and reconstruction of the Structural BMPs, there shall be the establishment of an escrow account, which can be spent solely for sediment removal, structural, biological or vegetative replacement, major repairs or reconstruction of the Structural BMPs. If the Structural BMPs are not performing adequately or as intended or are not properly maintained, the City, in its sole discretion, may remedy the situation, and in such instances the City shall be fully reimbursed from the escrow account. The escrow account will be funded initially by a lump sum contribution of the Developer (the "Initial Payment"), and thereafter by additional contributions of the Association. The Developer shall deposit the Initial Payment in the escrow account and show proof of at the earlier of:
 - (i) Prior to plat recordation of the Property; or
 - (ii) Before the issuance of building permits for the construction of improvements on the Property.

The Initial Payment shall be equal to \$______ dollars (which is equal to fifteen percent (15%) of the initial construction costs of the Structural BMPs). The sinking fund budget is defined as the amount required for the initial construction costs. The Owner shall deposit funds at least annually in equal installments into the escrow account such that at least 2/3 of the total amount of the sinking fund budget, as set forth in the Ordinance, shall be deposited into the escrow account within the first five (5) years and the remaining amount shall be deposited within ten (10) years following initial construction of the Structural BMPs. Funds shall be deposited each year into the escrow account. A portion of the annual assessment of the Association shall include an allocation into the escrow

account. Any funds drawn down from the escrow account shall be replaced by Owner in accordance with the schedule of contribution specified by the City prior to the withdrawal of said funds.

The Association shall provide an annual attestation of the sinking fund performed by a certified public accountant in compliance with GAAP standards, stating the funds available and account activity during the preceding year.

The percent of Developer contribution and lengths of time to fund the escrow account may be varied by the City depending on the design and materials of the Structural BMP.

- 9. USE OF PROTECTION EASEMENT. The City, its officers, employees, contractors and agents may access the Property and enter the Stormwater Areas for purposes of exercising City's rights hereunder. This Agreement shall in no way obligate the City to maintain, replace, reconstruct and repair the Structural BMPs, and the City shall not be liable to any person, firm, partnership, company, corporation, governmental agency, or entity for the condition or operation of the Structural BMPs. Further, this Agreement shall in no way diminish, limit, or restrict the right of the City to enforce any of its ordinances as permitted by law.
- 10. DEFAULT. If the Developer, the Association, Association members or subsequent Owners shall fail to comply with the foregoing requirements or any other obligations imposed herein, in the Ordinance or pursuant to the terms of the Declaration of Covenants, Conditions and Restrictions for the Property as the same may be amended from time to time in accordance with the terms thereof (the "Declaration"), the City, in its sole discretion, may perform such work and recover the costs thereof from either the escrow account or from the Owner who is then responsible for the performance of such requirements and obligations provided, however, that, except in cases of emergencies, the City will give the Owner written notification of deadline for correcting the violation and an opportunity to cure the Owner's default hereunder. If the City exercises its right hereunder and maintains, repairs, reconstructs or replaces all or a portion of the Structural BMPs, then following acceptance and payment of the work, the City shall deliver to the Owner written notice of the costs of such work, and the Owner shall pay all such costs within forty-five (45) days after receipt of such notice. Any costs not paid by the Owner to the City within the forty-five (45) day period shall be delinquent, and the Owner shall be considered in default of this Agreement. In the event of such default, the City may either bring an action at law against the Owner for the cost of the work, plus interest at the rate of eight percent (8%) per annum, collection costs, and reasonable attorney fees, or foreclose a lien against the Property, or both.

The Declaration shall grant the Association the right to impose assessments to pay any monies owed by the Association to the City pursuant to this Agreement; payment of such assessment being secured by a lien against all of the Property upon the filing of a claim of lien by the Association or by the City, as the assignee of the Association's lien rights. The granted lien rights shall be foreclosed in like manner as a mortgage on real estate pursuant to power of sale under Article 2A of Chapter 45 of the General Statutes from and after the time of recording a claim of lien in the Office of the Clerk of Superior Court of the County where the Property is situated, which claim shall state the description of the Property encumbered thereby, the name and address of the Association, the record owners of the encumbered Property at the time the claim of lien is filed, and the amount of the lien claim. The claim of lien shall be recordable any time after default, and the lien shall continue in effect until all sums secured by the lien as herein provided shall by have been fully paid. Such claims of lien shall include all sums that are due and payable when the claim of lien is recorded plus interest at the rate set forth in the Declaration, but not to exceed eighteen percent (18%) per year, collection costs and attorney fees. City

lien claims shall be signed by the City Manager. Upon full payment of all sums secured by such claims of lien, the same shall be satisfied of record.

Any payment required by this Agreement which is not paid to the City within thirty (30) days after its due date shall be delinquent. In the event of such default, the City may bring an action against the Owner for nonpayment plus interest at a rate of eight percent (8%) per year, collection costs, a late payment charge of three hundred dollars (\$300) during the first forty five (45) days of default and five hundred dollars (\$500) thereafter and reasonable attorneys' fees.

The remedies set forth herein are cumulative; the City may, for example, bring an action for collection and foreclose its lien claim.

- 11. RESERVATION BY RECORD OWNER. The Developer and the Association and its members, as applicable, shall in all other respects remain the owner of the Property, subject to the Protection Easement, and may make all lawful uses of the Property not inconsistent therewith.
- 12. NO WAIVER OF RIGHT. The City does not waive or forfeit the right to take action to ensure compliance with the terms, conditions and purposes of this Agreement by a prior failure to act.

13.	NOTICE.	Written notice	as required h	nereunder s	shall be	provided to	the (City I	Manager	of
the City of Jac	eksonville a	t PO Box 128, J	Jacksonville,	NC 28541	, and to	the Owner	at			

Written notice shall be deemed received four (4) days following its deposit, first class mail, with the United States postal system. In the event notice to the Owner is returned, the City may notify the Owner at either (i) the mailing address provided by the Onslow County Tax Assessor; or (ii) the registered agent of the Association on file with the Corporations Division of the Secretary of State's Office if an Owner is a corporation.

- 14. SUCCESSORS AND ASSIGNS. The designation of Developer, Association, and Owner shall include the heirs, assigns, and successors to the Developer, Association and Owner. The designation of City shall include the assigns and successors to the City.
- 15. TERM. This Agreement shall continue as a servitude running in perpetuity with the Property.
- 16. CONTROLLING LAW. This Agreement is to be governed by the laws of the State of North Carolina. Any and all applicable laws, rules, and regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts will be construed pursuant to the laws of the State of North Carolina. All claims and disputes arising from any contract shall be construed pursuant to the laws of the State of North Carolina. The State of North Carolina is the proper jurisdiction for all claims and disputes arising under any contract and the proper venue are the Onslow County Superior Court.
- 17. INDEMNIFICATION. Owners agree to protect, defend, indemnify and hold the City, its officers, employees and agents free and harmless from and against any losses, penalties, damages, settlements, costs, charges, professional fees or other expenses or liabilities in connection with or arising out of this Agreement and/or the performance hereof that are due to the negligent acts of the Developer and Association, its officers, employees, or agents.

TO HAVE AND TO HOLD the aforesaid rights, privileges and easements herein to the City, its successors and assigns forever, and Developer and Association do covenant that Developer and Association are seized of said premises in fee or by easement and have the right to convey the same, the Developer and Association will warrant and defend such title to the same against claims of all persons whosoever.

IN WITNESS WHEREOF, the Owners and the City have executed this Agreement and under seal as of the day and year first above written.

	DEVELOPER:		
	By:	(SEAL)	
	Name:		
	Its:	(Title)	
STATE OF NORTH CAROLINA COUNTY OF	ACKI	DEVELOPER NOWLEDGEMENT	
I, the undersigned Notary Public personally came before me this day and of	l acknowledged he/she is the		
(name of entity) a (circle one) corporati as such officer being authorized to do se	on, limited liability compa	any, general partnership and the he/she	
WITNESS my hand and official	stamp seal this the	day of, 20	
(SEAL)	Notary Public	pires:	

	ASSOCIATION:	
	By:	(SEAL)
	Name:	
		(Title)
STATE OF NORTH CAROLINA COUNTY OF	ASSOCIATION ACKNOWLEDGEMENT	
I, the undersigned Notary Public personally came before me this of	day and acknowledged he	
Association, Inc., a corporation, and the foregoing instrument on behalf of said of	e he/she as such officer bei	ng authorized to do so execute the
This the day of	, 20	
(SEAL)	Notary Public	
	My Commission Exp	oires:

	CITY OF JACK	SONVILLE:	
	By:		(SEAL)
	Name: Richard W	oodruff	
	Its: City Mana	ger	(Title)
A	TTEST:City Clerk		
	·		
STATE OF NORTH CAROLINA COUNTY OF ONSLOW		CITY MANAG ACKNOWLEDGE	MENT
This is to certify that on the personally came acquainted, who, being by me duly sw Interim City Manager of the City of a executed the foregoing; that she know affixed to the foregoing instrument is sa subscribed thereto by the said City Clergoverning body of said municipal corpmunicipal corporation.	orn, says that she is the Jacksonville, the munic s the corporate seal of aid corporate seal, and the said corporate seal corporate seal.	e City Clerk and Ro cipal corporation de said municipal corp he name of the muni- porate seal was affix	nald F. Massey is the scribed in and which poration; that the seal icipal corporation was ed, all by order of the
WITNESS my hand and official	stamp seal this the	day of	
(SEAL)	Notary Public My Commission I	Expires:	
APPROVED AS TO FORM:			
City Attorney	Date		

LIST OF EXHIBITS

Exhibit A "Property" Legal description of Property or Reference to recorded map

Exhibit B "Stormwater Area" – Description of area where structural BMPs are to be constructed.

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Permit Application and Plan Submittals

Approval of Stormwater Management Plans and Calculations by the City of Jacksonville <u>does not</u> complete the City of Jacksonville review process. All other applicable City Departments, State, and Federal agencies must also approve the plan as warranted. It shall be the sole responsibility of the Owner/Developer/Designer to acquire all applicable approvals.

SUBMITTAL REQUIREMENTS

Four original permit applications and attached permit signed and notarized, including checklist, **four** complete sets of site plan drawings and **four** complete sets of calculations shall be submitted to the City of Jacksonville. The following certifications shall appear on the first Stormwater Management sheet in the plan set or on an attached 8½ X 11 sheet of paper.

"I hereby certify that, to the best of my ability, this plan has been prepared in

DESIGNER'S CERTIFICATION

	accordance with the latest City of Jacksonville Manual of Specifications and Standard Details and City Code."		
	Signature:		
	Printed Name and Title:		
	Date:Registration Number:		
OW	NER'S/DEVELOPER'S CERTIFICATION		
"I/We hereby certify that all site construction, drainage and grading will be done pursuant to this plan and that the applicable Stormwater Management conditions and requirements of the City of Jacksonville, the State of North Carolina and the Federal Government and its agencies are hereby made part of this plan."			
	Signature:		
	Printed Name:		
	Title: Date:		

City Of Jacksonville - Stormwater Submittal Requirements

Date F	Received		
YES	NO	N/A	Stormwater submittal requirements (page 29)
			Stormwater Permitting Fee (page 7) Check #/amount
			Four original Stormwater Operation & Maintenance Agreements for Non-Associations, Pages 1, 3 & 4 filled out, back signed and notarized (pages 10-18)
			Four original Stormwater Operation & Maintenance Agreements for Associations with cost estimates for construction of structural BMPs and proof of Escrow Account with 15% initial payment, Pages 1, 3 & 4 filled out, back signed and notarized (pages 19-28)
			Four complete sets of design drawings signed and sealed by N.C. Professional Engineer (at least one original) (page 29)
			Four complete sets of calculations signed and sealed by N.C. Professional Engineer (at least one original) (page 29)
			Designer's Certification Box on first Stormwater Plan Sheet, Signed and sealed by N.C. Professional Engineer (page 29)
			Owner's/Developer's Certification Box on first Stormwater Plan sheet, signed (page 29)
			Four Permit Applications with Off-Site Permit or Permit attached, signed and notarized (pages 31-43)
			Four copies of Checklist for Stormwater Standards (pages 44-57)
<u>Applic</u>	ant's Ce	<u>rtificatio</u>	<u>n</u>
l,			(printed name) attest that this application for
requir	ed parts	of this a	(project name) has and is accurate and complete to the best of my knowledge. I also understand that if all application package are not completed and that if all required supporting information and accluded, this application package will be returned to me as incomplete.
Signat	ure:		Date:



FOR OFFICE USE ONLY
Date Received:
Review Fee: \$
Permit No:
Date Issued:

City of Jacksonville Application for Off-Site Stormwater Permit

City of Jacksonville Stormwater Management Plan Review:

A complete stormwater management plan submittal includes a copy of the original stormwater permit for the existing BMP if obtained from DWQ, an Off-Site Stormwater Permit and application for each off-site stormwater treatment system signed and notarized, and plans and specifications showing all stormwater conveyances and drainage details for the project.

I. PROJECT INFORMATION
Project Name:
Project Location: Highway/Street:
Latitude:Longitude:
Property Owner:
Property Owner Address:
Property Owner Telephone:
Total area encompassed by proposed project:?
How much built upon area (BUA) is proposed by the project?(SF)
Is all drainage from this project directed to the off-site system? (check one):
If No, How much built upon area will drain to the off-site system?(SF
<u>II. OFF-SITE SYSTEM INFORMATION</u> (please complete the following information for the off-site system that will treat runoff from your project):
Permit No
Project Name:
Type of System (wet pond, infiltration basin, etc.):
Lot Number on which system is located (if part of a subdivision): ?
How much BUA draining to the permitted treatment system has been allocated to thi
project?(SF)

III. REQUIRED ITEMS CHECKLIST

Prior to issuing an off-site permit, verification of the following information must be provided. Initial in the space provided to indicate that the following requirements have been met and supporting documentation is attached. If a requirement has not been met, attach justification.

Applica	nts Initials
	a. Deed restrictions limiting the built-upon area on the site have been recorded.
	b. Engineers certification for the existing off-site system has been submitted to COJ.
	c. There are no outstanding Notices of Violation for the off-site system.
	d. Off-site system is in compliance with the issued permit.
IV. STO	RMWATER COLLECTION SYSTEM MAINTENANCE REQUIREMENTS
1.	Mowing will be accomplished as needed according to the season. Grass height will not exceed six inches at any time.
2.	Accumulated sediment and trash will be removed from the collection system as necessary. Swales and ditches will be reseeded or sodded following sediment removal.
3.	Eroded areas of swales and ditches will be repaired and reseeded. Swales and ditches will be revegetated as needed based on monthly inspections.
4.	The collection system, including catch basins, curb cuts, velocity reduction devices, and piping, will be inspected monthly or after every significant runoff producing rainfall event. Trash and debris will be cleared away from grates, curb cuts, velocity reduction devices, and piping.
5.	The collection system may not be altered in any way without prior approval from the City of Jacksonville.
system	vledge and agree by my signature below that I am responsible for maintaining the stormwater collection in accordance with the five maintenance procedures listed above. I agree to notify the City of Jacksonville of blems with the system or prior to any changes to the system or responsible party.
Print Na	me and Title:
Address	8:
Phone:	Date:
Signatu	re:
	ne legally responsible party should not be a homeowners association unless more than 50% of the lots have ld and a resident of the subdivision has been named the president.
I,	, a Notary Public for the State of, County of
	, do hereby certify that personally appeared
before n	ne this day of,, and acknowledge the due execution of the forgoing
docume	nt including the stormwater collection system maintenance requirements. Witness my hand and official seal,
	Notary Public

My commission expires

SEAL

Permit Holder's Name:	
Stormwater Permit #:	
Off-site Permit #:	

Off Site Permit

SECTION 1. APPROVAL: Having reviewed the application and all supporting materials the City of Jacksonville has determined that the application is complete, and subject to the conditions imposed below, and the proposed development meets the requirements of the City's Phase II Stormwater Ordinance.

SECTION 2. CONDITIONS: Therefore, the above referenced site and land used is hereby approved and subject to all applicable provisions of the City of Jacksonville Phase II Stormwater Ordinance, Sections 3 and 4 of this permit, and the following condition(s) which the City of Jacksonville finds necessary for the proposed development to meet the intent of the ordinance:

- 1. This permit shall be valid for a period of two years from the date of issuance unless a valid building permit has been issued and maintained for the site or the permit has been revoked by the City of Jacksonville. If, after two years the permitted activity has not begun nor a valid building permit secured, this permit shall expire.
- 2. All land purchases and transfers necessary to secure the property for development shall be completed prior to recordation of this permit.
- 3. The development of the tract shall proceed in conformity to all plans, design features, and restrictions submitted as part of the stormwater permit application and kept on file by the City Planning Department except that the City of Jacksonville's Public Services Director may approve *minor* changes to such plans as required by field conditions.
- 4. The petitioner shall complete all required off-site stormwater improvements and receive approval from the City for such improvements prior to the release of any certificates of occupancy.
- 5. The petitioner shall submit a Floodplain Development Permit Application and receive approval from the City Planning Department prior to any land disturbance or filling of land located within Special Flood Hazard Areas.
- 6. The petitioner shall submit a Sedimentation and Erosion Control Plan Application and receive approval from the City of Jacksonville prior to any land disturbance or filling of land.

SECTION 3. VESTED RIGHTS. Approval of this permit confers upon the property the right to develop with the type and intensity of use only as such relates to the requirements of the Phase II stormwater ordinance and in the manner as herein described and as shown on the approved site plan. Development of the property, however, shall be subject to any and all future amendments to this ordinance which do not affect such type and intensity of use and shall proceed in full compliance with all other applicable local, state and federal regulations.

SECTION 4. DEED RESTRICTION-PROTECTIVE COVENANT. The following deed restrictions and protective covenants shall be recorded for all subdivisions, outparcels, and future development prior to the sale of any lot:

ARTICLE [insert number]

STORMWATER OPERATION AND MAINTENANCE, EASEMENT AND ACCESS AGREEMENT FOR STRUCTURAL MANAGEMENT OF BMPS AND ESCROW CONTRIBUTION CONTRACT

- 1. Definitions. As used within this Maintenance Covenant Section, the following words and terms have the following definitions.
 - (a) "Maintain", "Maintenance", "Maintaining" or any similar term used herein is defined to include one or more of the following, as the context requires: acquisition, purchase, construction, re-construction, installation, maintenance, inspection, examination, upkeep, cleaning, renewal, alternation, repair, replacement, repainting, remodeling, restoration, removal, improvement, administration, operation, use, planting, mowing, cutting, trimming, pruning, fertilizing, watering and preservation.
 - (b) "Maintenance Covenant" is defined as this Article.
 - (c) "Structural BMPs" is defined collectively as the stormwater control structures and other stormwater structural Best Management Practices (BMPs) and associated appurtenances and vegetation as stipulated on the approved final plat for said Property.
- 2. Location and Identification of Structural BMPs. A description of the portions of the Property where all the Structural BMPs are located, as well as a description of the Property in the Contract executed between the Association and the City of Jacksonville entitled "City of Jacksonville's Stormwater Operation, Maintenance, Easement and Access Agreement for Structural Stormwater Management of BMPs and Escrow Contribution Contract" which has been registered at the Onslow County Register of Deeds to run with said Property.
- 3. Maintenance of Structural BMPs. Structural BMPs shall be maintained by the Association in strict compliance with the Stormwater Ordinance and Agreement. At all times, the Structural BMPs shall comply with all applicable laws, ordinances, regulations, and rules. Membership in the Association is mandatory for each Owner of a Lot with membership being appurtenant to the Lot and running with ownership of the Lot. The Association or its Board of Directors shall levy assessments for the costs and expenses of maintaining the Structural BMPs in further compliance with the City of Jacksonville Stormwater Ordinance and Agreement. Upon compliance with the provisions of Chapter 47F of the North Carolina General Statutes (or any applicable successor provision), all assessments levied against a Lot that remain unpaid for a period of thirty (30) days or longer shall constitute a lien on that Lot.
- 4. <u>Association Costs and Expenses for Maintenance of Structural BMPs.</u> The costs and expenses of maintaining the Structural BMPs shall be a common expense of the Association and shall include, without limitation, all contribution payment obligations owed to the City of Jacksonville under a Stormwater Agreement covering the Property.
- 5. <u>Establishment of an Escrow Account</u>. The initial construction cost for the Structural BMP will be used to establish the level to which the escrow account will be funded. The sinking fund budget is established in the Stormwater Maintenance Agreement. Any funds drawn down from the

- escrow account shall be replaced in accordance with the schedule of contributions specified by the City of Jacksonville prior to the withdrawal of said funds.
- 6. Penalties Associated with Failure to Maintain Structural BMPs. Operation and Maintenance of the Structural BMPs must comply with all relevant provisions of the Ordinance, as may be amended from time to time, and the Operation and Maintenance Agreement. Failure to maintain the Structural BMPs is a violation of the Ordinance and may subject each Lot Owner to significant daily civil penalties and other enforcement actions by the City of Jacksonville.
- 7. <u>Grant of Easement</u>. Association hereby dedicates, bargains, sells, grants, and conveys unto the City of Jacksonville, its successors and assigns, a perpetual, non-exclusive and irrevocable right and easement over, under, through, and across the Stormwater Areas and access through the Property to and from the Stormwater Areas for the purpose of permitting City inspection and, if deemed necessary, as determined by the City, maintenance, replacement, reconstruction, and repair of the Structural BMPs.
- 8. <u>Joint and Several Liability</u>. Each Owner shall be jointly and severally responsible for maintenance and operation of the Structural BMPs, including payment of any unpaid expenses related to the maintenance of the Structural BMPs and including all interest charges thereon, together with the costs and expenses of collection incurred, including court costs and reasonable attorneys' fees actually incurred.
- 9. Action for Specific Performance. Recognizing the consequences to the City of Jacksonville of non-compliance with the obligations of this Maintenance Covenant, Association hereby grants the City of Jacksonville the right to seek, in any court of appropriate jurisdiction, judicial action for specific performance of any of the obligations established within this Maintenance Covenant. This right of the City shall not limit any other remedies or enforcement options available to the City under the Ordinance, any other applicable law, or the Stormwater Agreement.

SECTION 5. SEVERABILITY. Invalidation of any one or more of the conditions set forth herein shall not adversely affect the balance of said conditions, which shall remain in full force and effect.		
Interim City Manager	Date	
NORTH CAROLINA ONSLOW COUNTY		
I,	_, a Notary Public of the aforesaid County and State, certify	
	_personally appeared before me and acknowledged that he	
is the Interim City Manager for the City of	Jacksonville, North Carolina and pursuant to authority duly	
given, and as an act of the City; he executed	d this Agreement for the purpose herein expressed.	
WITNESS my hand and Notarial Seal this th	ne day of, 20	
	(Seal)	
	NOTARY PUBLIC	
My Commission Expires:	_	
	SEAL	

Permit Holder's Name:		
Stormwater Permit #:		
Off-site Permit #:		
1	owner(s) of	f tha
	, owner(s) of	
	receipt of this Stormwater Permit and agree to the condit	
stated within. I further acknowledge that	no work may be done pursuant to this Permit excep	ot in
accordance with all of the conditions	and requirements listed and that these conditions	and
requirements shall be binding upon me a	and my successors in interest and shall run with the lan	ıd in
perpetuity.		
	_	
Owner Name		
Owner Name	-	
NORTH CAROLINA		
ONSLOW COUNTY		
1	a Notory Dublic do haraby cartify that	
l,		
	[owner Name(s)] personally appea	
before me this day and acknowledged that	[he/she/they] [is/are] the owner(s) of [address]	
	<u>.</u>	
WITNESS my hand and Notarial Seal this t	the day of, 20	
	(Seal)	
	NOTARY PUBLIC	
	NOTAKI I ODLIO	
My Commission Expires:		
	SEAL	



FOR OFFICE USE ONLY
Date Received:
Review Fee: <u>\$</u>
Permit No:
Date Issued:

City of Jacksonville Application for Stormwater Permit

<u>Project Information</u>	
Project Name:	
Project Location: Highway/	Street:
Latitude:	_ Longitude:
Property Owner:	
Property Owner Address:	
Property Owner Telephone:	<u>, </u>
Deed Book:	Page No
PIN #	Lot Acreage
Purpose of Development:	Residential Commercial Other
Existing Impervious Covera	ge (acres) Proposed Impervious Coverage (acres)
High Density	Low Density
Applicant Information (Own	er/Developer)
Business Name(s):	
Applicant Name(s):	
Address:	
	Zip
Telephone:	Fax:
Email Address:	
Designer Information (Pers	on to contact regarding questions or revisions to the plan)
Contact Name:	
	Zip
Telephone:	Fax:
Email Address:	

ATTACH PERMIT TO THIS APPLICATION

Permit Holder's Name:	
Stormwater Permit #:	

Permit

SECTION 1. APPROVAL: Having reviewed the application and all supporting materials the City of Jacksonville has determined that the application is complete, and subject to the conditions imposed below, and the proposed development meets the requirements of the City's Phase II Stormwater Ordinance.

SECTION 2. CONDITIONS: Therefore, the above referenced site and land used is hereby approved and subject to all applicable provisions of the City of Jacksonville Phase II Stormwater Ordinance, Sections 3 and 4 of this permit, and the following condition(s) which the City of Jacksonville finds necessary for the proposed development to meet the intent of the ordinance:

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Permit Holder's Name:	
Stormwater Permit #:	

ARTICLE [insert number]

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 - (e) "Maintenance Covenant" is defined as this Article.
 - (f) "Structural BMPs" is defined collectively as the stormwater control structures and other stormwater structural Best Management Practices (BMPs) and associated appurtenances and vegetation as stipulated on the approved final plat for said Property.
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Permit Holder's Name:	
Stormwater Permit #:_	

- 5. <u>Establishment of an Escrow Account</u>. The initial construction cost for the Structural BMP will be used to establish the level to which the escrow account will be funded. The sinking fund budget is established in the Stormwater Maintenance Agreement. Any funds drawn down from the escrow account shall be replaced in accordance with the schedule of contributions specified by the City of Jacksonville prior to the withdrawal of said funds.
- 6. <u>Penalties Associated with Failure to Maintain Structural BMPs.</u> Operation and Maintenance of the Structural BMPs must comply with all relevant provisions of the Ordinance, as may be amended from time to time, and the Operation and Maintenance Agreement. Failure to maintain the Structural BMPs is a violation of the Ordinance and may subject each Lot Owner to significant daily civil penalties and other enforcement actions by the City of Jacksonville.
- 7. <u>Grant of Easement</u>. Association hereby dedicates, bargains, sells, grants, and conveys unto the City of Jacksonville, its successors and assigns, a perpetual, non-exclusive and irrevocable right and easement over, under, through, and across the Stormwater Areas and access through the Property to and from the Stormwater Areas for the purpose of permitting City inspection and, if deemed necessary, as determined by the City, maintenance, replacement, reconstruction, and repair of the Structural BMPs.
- 8. <u>Joint and Several Liability</u>. Each Owner shall be jointly and severally responsible for maintenance and operation of the Structural BMPs, including payment of any unpaid expenses related to the maintenance of the Structural BMPs and including all interest charges thereon, together with the costs and expenses of collection incurred, including court costs and reasonable attorneys' fees actually incurred.
- 9. Action for Specific Performance. Recognizing the consequences to the City of Jacksonville of non-compliance with the obligations of this Maintenance Covenant, Association hereby grants the City of Jacksonville the right to seek, in any court of appropriate jurisdiction, judicial action for specific performance of any of the obligations established within this Maintenance Covenant. This right of the City shall not limit any other remedies or enforcement options available to the City under the Ordinance, any other applicable law, or the Stormwater Agreement.

Permit Holder's Name:	
Stormwater Permit #:	
	of any one or more of the conditions set forth herein shall ditions, which shall remain in full force and effect.
City Manager	 Date
NORTH CAROLINA ONSLOW COUNTY	_, a Notary Public of the aforesaid County and State, certify
	personally appeared before me and acknowledged that he
	poisonary appeared serore me and deknowledged that he nville, North Carolina and pursuant to authority duly given,
	agreement for the purpose herein expressed.
WITNESS my hand and Notarial Seal this th	ne day of, 20
	(Seal)
	NOTARY PUBLIC
My Commission Expires:	_
	SEAL

Stormwater Permit January 15, 2010

Permit Holder's Name:	
Stormwater Permit #:	
subject property, do hereby acknowledge r stated within. I further acknowledge that accordance with all of the conditions	, owner(s) of the receipt of this Stormwater Permit and agree to the conditions no work may be done pursuant to this Permit except in and requirements listed and that these conditions and nd my successors in interest and shall run with the land in
Owner Name	
Owner Name	
NORTH CAROLINA ONSLOW COUNTY	
I,	,a Notary Public, do hereby certify that
WITNESS my hand and Notarial Seal this t	the day of, 20
	(Seal) NOTARY PUBLIC
My Commission Expires:	 SEAL



FOR OFFICE USE ONLY
Date Received:
Review Fee: \$
Permit No:
Date Issued:

City of Jacksonville Stormwater Permit Name/Ownership Change Form

I. CURRENT PERMIT INFORMATION

Stormw	vater Permit Number:			
Project	Name:			
Current	t Permit Holder's Company Name/Organization:			
Signing	g Official's Name:		Title:	
	(Person legally responsible	for permit)		
Mailing	Address:			
City:	State:		Zip:	
Phone:	Fax:)	
II. PROP	OSED PERMITTEE / OWNER / PROJECT / ADDRI	ESS INFORMA	ATION	
This red	quest is for: (Please check all that apply)			
	Name change of the owner (Please complete It	ems 1, 2 and 3	below)	
	Name change of project (Please complete Item	5 below)		
	Change in ownership of the property/company	y (Please com _l	olete Items	1, 2, 3, and 4 below)
	Mailing address / phone number change. (Plea	ase complete It	tem 4 belov	N)
	Other (Please explain)			
1.	Proposed Permittee's company name/organiza			
2.	Proposed Permittee's signing official's name:			
3.	•			
4.	Mailing Address:			
	City:			_
	Phone: ()	Fax: <u>(</u>)	
5.	New Project Name to be placed on permit:			
Please	check the appropriate box. The proposed Permittee			
Ш	HOA or POA (Attach a copy of the deed transfer	ring ownership	of all com	non areas.)
	The property owner.			
	Lessee (Attach a copy of the lease agreement ar	nd complete Pr	operty Owi	ner Information on page 4)
	Purchaser (Attach a copy of the pending sales a page 4)	greement and	complete F	Property Owner Information on
	Developer (Complete Property Owner Information	n on page 4)		

III. REQUIRED ITEMS

This application package will not be accepted by the City of Jacksonville unless all of the applicable required items listed below are included with the submittal.

- 1. This completed and signed form.
- 2. Legal documentation of the transfer of ownership. (For Permit Transfers Complete Current Permittee and Proposed Permittee Sections)
- 3. A copy of the recorded deed restrictions, if required by the permit.
- 4. The designer's certification, if required by the permit and if not already submitted to the City.
- 5. If the Proposed Permittee is a corporation, LLC or General Partnership, provide documentation from the Secretary of State office, which supports the named president, vice president, member, manager or General Partner.
- 5. The \$40.00 processing fee.

IV. CURRENT PERMITTEE'S CERTIFICATION

Please check one of the following statements:	
Check here if the Current Owner is only changing the address, and will retain ownership of the permit.	owner name, company name or project name, or the mailing
am changing my name or company name and/or I am chang permitted project. I further attest that this application for a na knowledge. I understand that if all required parts of this appli information and attachments as outlined above are not include.	
permit.	
I,, the current	t owner, am submitting this application for a transfer of
Structural BMPs associated with this permit. I further acknow to the City: a copy of the most recent permit, a copy of the D approved as-built plans, a copy of the approved Operation at records to the Proposed Permittee named in Sections II and form. I further attest that I assign all rights and obligations as form. I understand that this transfer of ownership cannot be a	nd Maintenance agreement and copies of past maintenance V of this form at the mailing address listed in Section II of this spermittee to the Proposed Permittee named in Section V of this approved by the City of Jacksonville unless and until the Structural mittee signs this form. I understand that in the event the Structural of sign this form, the responsibility to bring the facility into
Signature:	Date:
I,	, a Notary Public for the State of
, County of	, do hereby certify that
	personally appeared before me this the
day of, 20 forgoing instrument. Witness my hand and official seal,	, and acknowledge the due execution of the
Notary Signature	 (Notary seal)

V. PROPOSED PERMITTEE CERTIFICATION:

(This section must be completed by the Proposed Permittee for all transfers of ownership)
I,, hereby notify the City of Jacksonville that I have acquired through sale, lease or legal transfer, the responsibility for constructing and/or operating and maintaining, the permitted structural BMP. I have examined the permit and inspected all the permitted structural BMPs, and agree to assume the rights and liabilities contained in the permit and to comply with the terms and conditions of the permit.
I attest that I have reviewed this application for an ownership change and it is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete.
I further acknowledge and attest that in the event the required facility inspection reveals that the project is not in compliance with the permit, I understand this transfer of ownership will not be approved until the project is brought into compliance. I acknowledge and attest that I have received a copy of the most recent permit, a copy of the designer's Certification, a copy of the approved plans and/or approved as-built plans, a copy of the approved Operation and Maintenance agreement and copies of past maintenance records from the previous permittee. I further acknowledge and agree that I will construct and/or operate and maintain the system per the requirements listed in the permit and in the Operation and Maintenance agreement.
Signature: Date:
I,, a Notary Public for the State of
, County of, do hereby certify that
personally appeared before me this the
day of, 20, and acknowledge the due execution of the forgoing instrument. Witness my hand and official seal,
Notary Signature (Notary Seal)

Please note that if the Proposed Permittee listed above is not the property owner, the property owner must complete and sign page 4 of this document. Both the lessee / developer and the property owner will appear on the permit as permittees.

VI. PROPERTY OWNER CONTACT INFORMATION AND CERTIFICATION

Property Owner must provide his/her Contact Information below and sign this form)

(If the Proposed Permittee listed in Sections II and V of this form is not the Property Owner, the

Organization: Title within the Organization: Street Address: _____State:____Zip:_____ Mailing Address: (if different from street address) City: ______ State: _____ Zip: _____ I certify that I own the property identified in this permit transfer document and have given permission to the Proposed Permittee listed in Sections II and V to develop, lease or purchase the property. A copy of the lease agreement or pending property sales contract has been provided with the submittal, which indicates the party responsible for the construction and/or operation and maintenance of all structural BMPs. As the legal property owner I acknowledge, understand, and agree by my signature below, that I will appear as a Permittee along with the lessee/developer and that if the designated Proposed Permittee dissolves their company and/or cancels or defaults on their lease agreement or pending sales contract, responsibility for compliance with the City of Jacksonville Stormwater permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify City of Jacksonville by submitting a completed Name/Ownership Change Form within 30 days of procuring a developer, lessee or purchaser for the property. I understand that failure to operate and maintain all structural BMPs in accordance with the permit is a violation of the City of Jacksonville Ordinance 2009-07. Signature of the property owner Date: I, ______, a Notary Public for the State of _____, County of _____, do hereby certify that personally appeared before me this the day of ______, 20___, and acknowledge the due execution of the forgoing instrument. Witness my hand and official seal, (Notary Seal) Notary Signature

CITY OF JACKSONVILLE

Checklist for Stormwater Standards

Plan Requirements (Indicate "N/A" where appropriate):

Yes	No	N/A	Sheet No.	Description	Remarks
				Development Name	
				Owner	
				Design Firm	
				Sealed, Signed and Dated	
				Sheet Number	
				Date	
				Revision Numbers and Dates along with	
				a list of all revisions made	
				Designer's Certification	
				Owner's/Developer's Certification	
				North Arrow	
				Property Lines	
				Legend	
				Vicinity Map	
				Scale (min. at 1"=50')	
				General Description of Project	
				General Description of Erosion Controls	
				General Description of Stormwater	
				Management Facilities	
				Project Schedule, Narrative, Sequence	
				of Construction	
				Adjacent Property Owners	
				Existing Streets, Buildings, etc.	
				Wooded Limits	
				Wetland Limits	
				Water Quality Buffers	
				Proposed Public Drainage Easements	
				shown	
				Land Use of Surrounding Areas	
				Original Contours (2-foot intervals)	
				Proposed contours (2-foot intervals) or	
				sufficient number of spot elevations Actual Field Survey	
				City/USGS Topographical Data	
				Existing Streams, Lakes, etc.	
				Size and Location of Existing Culverts	
				Size and Location of Proposed Culverts	
				Limits of Drainage Area	
				•	
				Limits of Construction, Clearing & Grading	
				٠·-·-·	

				Existing & Proposed Improvements			
				(including utilities and protective measures) Delineation of FEMA 100-yr Floodplain			
Ш				w/i 200 feet of project, 100 year BFE			
				shown			
				Location and elevation of the lowest			
				floor in all proposed and existing			
				buildings			
				Location of Stormwater Management			
				Facilities (includes details, plan, profile, and cross sections)			
П				Maintenance plan for stormwater			
				management facilities			
				Submitting 7 Set of Plans			
		-	ements				
Note: fully b			ructures sn	ould be designed to handle all upstrear	n flow when the basin is		
Yes	No No	N/A	Sheet No.	Description	Remarks		
			Chect No.	Development Name	Remarks		
П	П			Owner			
				Design Firm			
				Sealed, Signed and Dated			
				Capacity of receiving channel			
				downstream of channel, pipe or basin			
				system			
				Total area, impervious area, CN, Tc,			
				Q _{pre} and, Q _{post} for 10-year/25-year/100-year storms as applicable			
П	П			25-year (where required) flows at cross-			
				street drainage structures			
				10-year and 100-year flood routing			
				analysis through all detention/retention			
				facilities			
				Design flows and velocities in open channels			
П	П			Quality control computations			
П	П	П		Soils/Geotechnical Report/Analysis (for			
				infiltration facilities)			
				Submit 2 Sets of Calculations			
Pipe	d Syst	ems*:	(For Reside	ntial Streets)			
Yes	No	N/A		Description	Remarks		
				Analyzed and designed for 10-yr Storm			
				Designed for 25-year (where required)			
				flows at cross-street drainage structures			
				Minimum Velocity = 2.5 FPS			
				Headwall or Flared End Sections			
				Energy Dissipater Calculations			

			Capacity of receiving channel downstream of channel or pipe system	
	П	П	Gutter spread limited to ½ lane width	
	_		from the face of the curb, for a rainfall	
			intensity of 4 inches per hour	
Ope	n Chai	nnel Sys	tems:	
Yes	No	N/A	Description	Remarks
			Capacity analyzed and designed for 10-	
			yr Storm	
			Lining Designed for 2-yr Storm	
			Side Slopes 3 to 1 or flatter	
			Minimum Bottom Width = 3 Feet	
			Velocity Check (Liners provided, if needed)	
			Capacity of receiving downstream channel	
Other	Plan S	Submitta	l s:	
			or items may need to be considered by the designe	
			ect. All below shaded items are to be submitted to the	e City. Other items shall be
		on reque		
Yes	No	N/A	Description	Remarks
			Maintenance plan for all stormwater	
			facilities	
			Landscaping details for stormwater management BMP's	
П	П	П	Name and address of entity responsible	
			for maintenance	
П	П	П	Submit Erosion & Sedimentation Control	
	_		Plan to City of Jacksonville	
			Submit permits to NCDOT for	
			encroachments and driveways	
			US Army Corps of Engineers 404	
			permits	
			Comply with water supply watershed	
			protection ordinance	
			Complete survey of threatened or	
			endangered species	
			NCDENR, Water Quality permits	
* Cont	act Pul	olic Serv	ces Director for requirements if other than Residential	Streets.
Comm	oonto:			
COIIIII	ients.			
				_

Submittal Worksheet for Dry Detention, Wet Retention, Extended Detention Wetland Basins, and other BMP Facilities:

The City of Jacksonville will follow the City Code and the North Carolina Department of Environment and Natural Resources, Division of Water Quality Stormwater Site Planning Guidance Manual and the Stormwater Best management Practices Handbook with regard to Dry Detention, Wet Retention Basin, Extended Detention Wetland Basins and other BMP's within the City's jurisdiction. Please provide complete documentation and details where applicable. A complete stormwater management plan submittal includes a worksheet for each basin, design calculations, plan and specifications showing all basin and outlet structure details, and a fully executed operation and maintenance agreement. An incomplete submittal package will result in a request for additional information and will substantially delay final review and approval of the project. Indicate "Not Applicable" where appropriate if design is a dry detention basin.

I. Project Information (please complete the following information):

Project Name:							
For projects with multiple	e basins,	specify	which	basin	this	worksheet	applies to
Dania Dattara Flavotica		f.	(aver	age ele	vation	of the floor	of the
Basin Bottom Elevation		ft.	basin	•			
Permanent Pool Elevation		ft.	(elevation of the orifice invert out)				
Temporary Pool Elevation		ft.	(elevation of the outlet structure invert in)				
Permanent Pool Surface Area		sq. ft.	(water surface area at permanent pool elevation)				
Drainage Area		ac.	(on-site and off-site drainage to the basin)				
Impervious Area		ac.	(on-site and off-site drainage to the basin)				
Permanent Pool Volume		cu. ft.	(com		olume	of main bas	in and
Temporary Pool Volume	-	cu. ft.	(volume detained on top of the permanent pool)			permanent	
Forebay Volume		cu. ft.	(volui pool)	me deta	ained (on top of the	forebay
Average Pond Depth		ft.	•	•		permanent p	,
SA/DA used			•			ainage area	,
Diameter of Orifice and Number	in./		(draw of)	/ down (oritice	diameter an	id number
SHWT elevation		ft.	(eleva	ation of	seaso	onal high wat	ter table)

II. Required Items Checklist

Initial in the space provided to indicate the following design requirements have been met and supporting documentation is attached. If a requirement has not been met, attach an explanation of why.

Applicant's Initials	Dry Detention Basin, Wet Detention Ponds & Extended Detention Wetlands
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.
	A minimum length to width ratio of 1.5:1 is required. 3:1 is preferred. All built-upon area shall be at a minimum of 30 feet landward of all perennial and intermittent surface waters.
	Flood control goal: Pond outflow from principle outlet structure must not exceed the 10-year storm pre-development flow or 25 year storm in areas with a history of localized flooding problems.
	Vegetated side slopes are no steeper than 3:1. The forebay and main pond shall have a minimum of 1 foot sediment storage Freeboard shall be a minimum of 1 foot above the maximum stage of the
	basin Emergency spillway safely passes the 100-year design storm across a stabilized spillway
	The storage for flood control located above the temporary storage pool. Outlet structure checked for buoyancy.
	Splitter plate and trash rack provided on principle outlet structure. Considered features to prevent piping and internal erosion problems around the spillway/outlet conduit through an embankment system.
	Access is provided for maintenance Design checked and certified for structural integrity and floodplain impacts for the 100-yr Storm
	A site specific operation and maintenance (O&M) plan is provided. A vegetation management/mowing schedule is provided in the O&M plan A debris check is specified in the O&M plan after every storm event
	Semi-annual inspections are specified in the O&M plan The Operation & Maintenance checklist is specified in the O&M plan to be performed after every storm event.
	A responsible party is designated in the O&M plan

Applicant's Initials	Wet Detention Ponds (items to be added to Dry Detention pond requirements to yield a Wet Detention Pond)
	SA/DA is based on 85% or 90% TSS removal (based on Coastal Counties
	Tables). The temporary pool, located above the permanent pool, sized to detain the runoff volume from the 1.5" of runoff ("first flush"). The 1.5" draws down in a minimum of 2 to 5 days.
	The average depth of the permanent pool shall be a minimum of 3 feet. The forebay volume is approximately equal to a minimum of 20% of the total basin volume
	The storage for flood control located above both the permanent and temporary (1.5") water quality pools.
	A minimum 10-foot wide vegetated shelf shall be installed around the perimeter. The inside edge of the shelf shall be 6" below the permanent pool elevation; the outside edge of the shelf shall be 6" above the permanent pool elevation.
	The pond shall be designed with side slopes and vegetated slopes no steeper than 3:1.
	Basin discharge shall be evenly distributed across a minimum 30 feet long vegetative filter strip unless it is designed to remove 90% TSS. (A 50-ft filter is required in some locations.)
	A specific sediment clean-out benchmark is listed (elevation or depth) in the O&M plan
	BMP shall not be located to produce adverse impacts on water levels in adjacent wetlands.
	The permanent pool elevation shall be within 6 inches (plus or minus) of the SHWT elevation.
Applicant's	Extended Detention Wetlands
Initials	(additional items applicable to Extended Detention Wetland Basins)
	Determine the surface areas of the pond using 3 foot depth (this does not mean the pool depth will be 3 feet deep! It is for pool area computation only) 70% of pool area is designed as a marsh with a depth of 0 to 18" with an almost equal distribution of area (35% and 35%) between 0 to 9" and 9" to 18".
	A small pool (15% of the surface area) is located at the outlet to prevent sediment form interfering with the outlet structure functions.
	15% forebay Plant specification and installation of plants shown (it is not necessary to plant cattails as they will volunteer on their own).
	Contour pond using 0.5 foot contours. The shelf from the normal pool elevation contour inward needs to be 6:1 on the perimeter only. Once away from the shelf areas, contours can vary as desired. Minimum shelf width = 10 feet.

Applicant's Initials

Pocket Wetlands in combination with Grassed Swales

Sizing process follows wet detention basin guidelines but shall incorporate Table 2.1 (below). An average of 2 feet is assumed.

Table 2.1 Surface Area to Drainage Area Ratios for Sizing Pocket Wetlands			
Imperviousnes	SA/DA (%)		
s (%)			
<70	0.75		
70	0.80		
75	0.85		
80	0.91		
85	0.96		
90	1.02		
95	1.07		
100	1.12		

Capture the runoff from the 1-year 24 hour storm and release it over a period of 48 hours or ,
 Capture the runoff from the 1.5" storm and allow it to draw down over a period of 2 to 5 days.
Average depth no more than 2 feet.
Pond area distribution:
High Marsh (0-6 inch depth) = 50%
Low Marsh (6-12 inch depths) = 40%
Open water (>18 inch depth) = 10%
Cleanout access provided
Drain provided to completely drain the basin for cleanout
Peak flow control to accommodate 10-year storm pre-development flow, and
25-year storm when required.
Vegetation plan prepared by a NC licensed professional Landscape Architect, Engineer, or Architect giving special consideration to the species specified due to frequent inundations.
The plans must specify that the wetland must be stabilized within 14 days of construction with final vegetation or temporary means until vegetation can become established.
Plunge pool, riprap or other measure provided at inlets to prevent resuspension of sediments.
Pocket wetlands that receive runoff from anything other than vegetated filters or swales must incorporate a forebay.
O&M specifies that the top few inches of sediment is stockpiles so that it can be replaced over the surface of the wetland after completion of sediment removal to reestablish through its own seedbank. O&M specifies cleanout at 6 inches.

III. A Checklist for Other BMP Measures (please complete the following information):

Applicant's Initials	Level Spreaders
	Entire system passes the 10-year storm without causing erosion, gullies, or rills.
	Slope of the natural ground away from or parallel to the level spreader is relatively smooth in the direction toward the stream so that flow will not reconcentrate.
	Minimum length = 10 feet; maximum length = 300 feet Level spreader is level Type and amount of vegetative cover considered

Applicant's Initials	Sand Filter
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.
	Vegetated side slopes shall be no steeper than 3:1
	BMP shall be located in recorded drainage easement with a recorded access easement to a public ROW.
	Seasonally high groundwater table must be at least 2 feet below the bottom of the filter for open-bottom designs.
	Volume in excess of the design volume, as determined from the design storm, shall bypass the sand filter.
	Volume in excess of the design volume, as determined from the design storm, shall be evenly distributed across a minimum 30 feet long vegetated filter strip. (A 50-ft filter is required in some locations.) IF this cannot be attained, alternate designs will be considered on a case by case basis. The design shall be located a minimum of 30 feet from surface waters, and 50 feet from class SA waters.
	The design shall be located a minimum of 100 feet from water supply wells. Seasonally high groundwater table must be at least 1 foot below the bottom of the filter for closed filter designs in order to prevent draining the water table and floatation. Exceptions will be made if these concerns are mitigated. Maximum contributing drainage basin is 5 acres. Minimum width (parallel to flow) of a sedimentation chamber or forebay shall be 1.5 feet. Sand filter must completely drain within 40 hours.
	Sand media shall be as specified below and shall be a minimum of 18" deep (minimum of 12" over the drainage pipes). For underground sand filters, provide at least 5 feet of clearance between the surface of the sand filter and the bottom of the roof of the underground structure.

Applicant's	Bioretention Areas					
Initials	(Design generally complies with the requirements of DWQ's Stormwater Best Management Practices, Section 4.0 – Bioretention Areas)					
	Minimum functional width of 15 feet (25 feet preferable) Minimum length 40 feet. For widths equal or greater than 20 feet, the length of the bioretention area should be at least 2 times the width (to permit sheet flow to be dispersed over a greater distance). Maximum depth of ponded area = 6 inches Minimum depth of planting soil = 4 feet Bioretention area < 5 acres. 0.25-acre to 1.0-acre bioretention basins sizes may be required where high erosive velocities occur. Drainage area sized for sheet flow for the 10-year storm. Sheet flow into basin < 5 fps. If not, provisions made to prevent erosion of vegetated areas. ^a Bioretention area = 5% of the drainage area multiplied by the Rational "C" coefficient when sand bed used. See standard detail 641.01. ^a Bioretention area = 7% of the drainage area multiplied by the Rational "C" coefficient when sand bed is not considered appropriate. See standard detail 641.01.					
	Runoff entering bioretention area in form of sheet flow. First flush accomplished through curb openings of 3 feet width with a diversion block in front of the curb opening and using a drainage area of 1 acre (based on commercial land use with runoff coefficient of 0.8 using HEC-12). Multiple curb openings provided when longitudinal curb slope exceeds 7%. Maximum sheet flow velocity for planted ground = 3 fps; for mulched cover, 1 fps. (Note: velocity from 3-foot curb opening draining a 1-acre commercial tract is 0.5 fps and thus non-erosive to either type of cover). Water table > 6 feet from the land surface desired. Grassed buffer strip and sand bed (Desired where space constraints allow). See standard detail 641.02.					

Applicant's Initials	Infiltration devices			
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.			
	Side slopes stabilized with vegetation shall be no steeper than 3:1. BMP shall be located in a recorded drainage easement with a recorded			
	access easement to a public ROW.			
	If the BMP is used for sedimentation and erosion control during construction, it must be cleaned out and returned to the design state.			
	The design shall be located a minimum of 30 feet from surface waters, and 50			
	feet from Class SA waters.			
	The design shall be located a minimum of 100 feet from water supply wells			

The bottom shall be a minimum of 2 feet above the seasonal high water table.
Volume in excess of the treatment volume, as determined from the design storm, shall bypass the device.
Volume in excess of the treatment volume, as determined from the design storm, shall be evenly distributed across a minimum 30 feet long vegetated filter strip. (A 50-ft filter is required in some locations.)
The storage volume must completely draw down to the seasonable high water table under seasonally high water conditions within 5 days.
Soils must have a minimum hydraulic conductivity of 0.52 inches per hour to be suitable for infiltration.
Device must not be sited on fill material.
Trenches must be shallower than their largest surface dimension to prevent categorization as an "injection well."
 BMP shall be installed at a 0-0.05% grade (level).
 BMP shall be located a minimum of 15 feet down gradient of any structure.
A single device shall handle a maximum of 2 acre-inches of runoff.
The bottom shall min. of 2 feet above any underlying impervious soil horizon or bedrock.
 BMP shall be used only after entire upstream area has been stabilized.
BMP shall not be used on industrial sites or designated contaminated land uses or activities such as areas subject to frequent oil or other petroleum contamination.
Pretreatment devices must be provided.
Trench depths must be between 3 and 8 feet.
 Minimum of 1 observation well shall be provided.

Applicant's Initials	Permeable Pavements
	Must capture and infiltrate runoff from the first 1.5 inches of rainfall
	Storage volumes indicated on plans/calculations and volumes account for slope of pavement structure
	Pavement slope designed to be as flat as possible with slopes not exceeding 0.5%
	The seasonally high water table must be at least 2 feet from the base (bottom) of the permeable pavement or gravel storage layer.
	Permeable pavement is not designed to receive concentrated flows Construction sequence insures that the surface installation is planned to be completed after adjacent areas are stabilized with vegetation.
	Drainage time for storm is minimum 12 hours to maximum of 72 hours, recommended at 24 hours
	Run-on to the pavement from offsite areas is not allowed. Adjacent fine

grained soils should be prevented from draining to the porous pavement The top 3 feet of soil must have no finer texture than Loamy Very Fine Sand as determined by a soil analysis
Only 2 acre-feet of soil per acre disturbed can be graded for the permeable pavement footprint.
On-site soils tested for porosity, permeability, and cation exchange should be performed on the soil horizon located beneath the base of the pavements system to a minimum depth of 3 feet.
Minimum infiltration rate of the footprint of the permeable installation must have a vertical saturated hydraulic conductivity of at least 0.52 inches per hour (as determined by a soil analysis) for the soil horizon located beneath the base of the pavement system to a minimum depth of 3 feet.
Geotextile fabric provided on the subgrade to prevent migration or transportation of fine grained soils Maintenance issues covered in an operations and maintenance plan

Applicant's Initials	Filter Strip
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.
	The BMP shall be located in a recorded drainage easement with a recorded access easement to a public ROW.
	A distribution device shall be used to provide even distribution of runoff across the BMP. The filter strip must be densely vegetated.
	An appropriately licensed design professional must prepare the grading and vegetation plan.
	The length and width of a filter strip shall be in accordance with the requirements of the applicable stormwater regulatory program.
	Sustained sheet flow is required, typically through the use of a concrete level spreader.

Applicant's Initials	Restored Riparian Buffer
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.
	BMP shall be located in a recorded drainage easement with a recorded access easement to a public ROW.
	The buffer must be constructed directly adjacent to a perennial or intermittent surface water as shown on the most recent NRCS Soil Survey or the USGS 1:24,000 scale (7.5 minute) quadrangle topographic map.

The existing riparian buffer must be "impaired." An "impaired" riparian buffer includes: fields and pastures that have been actively used within the
 last 3 years, and wooded buffers that have been cutover within the last 5 years or where the woody vegetation is absent or sparse (less than 100 stems per acre that are greater than 5 inches diameter at breast height).
The restored riparian buffer must be used only when the flow to the level spreader is less than 3 cfs. This flow could be coming directly from the drainage area during the one inch per hour storm or the drawdown flow from another BMP.
Level spreaders (designed in accordance with Chapter 8 of this Manual) are required if it cannot be proven that the stormwater entering the riparian buffer is sheet flow.
The width shall be 50 feet, which must be divided into two zones. The 30 feet closest to the stream (Zone 1) must be wooded and the outer 20 feet (Zone 2) must be grassed.
The buffer must be a minimum of 13 feet and a maximum of 130 feet in length, and is set by the level spreader length requirements. The slope of a riparian buffer must not be greater than 6%.

Applicant's Initials	Rooftop Runoff Management
	A vegetation plan prepared by a horticulturalist versed in green roof vegetation is required.
	A structural engineer must be consulted and verify roof and structure strength. Access to the roof is required for inspection and maintenance.
	On a roof slope greater than 20 degrees, horizontal strapping or other support systems must be installed to avoid slippage and slumping of the growing medium and plants.

Applicant's Initials	Rainwater Harvesting Systems - (Cisterns)
	(*Applicants intending to receive credit for peak runoff attenuation and runoff volume reduction shall follow criteria set out in the current N.C. Stormwater BMP Manual. All relevant information shall be submitted with the stormwater permit application.)
	Plans and details (prepared by a licensed Professional Engineer or Landscape Architect)
	Water Harvesting Supplement Form (from N.C. Stormwater BMP Manual)
	System model input and output (prepared by a licensed Professional Engineer or Landscape Architect)
	System design calculations, including volume and storage calculations, pump, overflow, gutter, and downspout sizing calculations (prepared by a licensed Professional Engineer or Landscape Architect)
	Water balance calculations for dedicated uses (prepared by a licensed Professional Engineer or Landscape Architect)
	Buoyancy calculations for underground systems (prepared by a licensed Professional Engineer or Landscape Architect)
	Operation & Maintenance Plan to be supplied to the owner (this must include information for the owner about dedicated use requirements)

Applicant's Initials	Downspout Dispersion blocks
	A vegetated flowpath at least 50 feet in length as measured from the downspout to the downstream property line, structure sensitive steep slope, stream, wetland, or other impervious surface The vegetated flowpath must be covered with well-established lawn or pasture, landscaping with well-established groundcover, or native vegetation
	with natural groundcover. Flows shall not be directed onto sidewalks A maximum of 700 square feet of roof area may drain to each splashblocks A splashblock or a pad of crushed (2 ft wide by 3 ft long by 6 in deep) shall be placed at each downspout discharge point
	No erosion or flooding of downstream properties may result Splashblocks may not be placed on slopes greater than 20% or above erosion hazard areas without evaluation by a qualified geotechnical engineer and approval of the City
	For sites with septic systems, the discharge point must be down slope of the primary and reserve drain field areas. This requirement may be waived by the City if site topography clearly prohibits flows from intersecting the drain field or where site conditions indicate that this is unnecessary
a Cining rule le	If the vegetated flowpath (measured as defined above) is less than 25 feet on a subdivision single-family lot, a perforated stub-out connection may be used in lieu of downspout dispersion.

^a Sizing rule based on the bioretention area infiltration precipitation events of 0.5 to 0.7 inches occurring over a 6-hour time period.

Applicant's Initials	Proprietary Systems
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage. BMP shall be located in a recorded drainage easement with a recorded access easement to a public ROW.
	The BMP may not be located within one mile of and draining to waters classified as HQW; including waters classified as ORW, WS-I, WS-II, SA, and Primary Nursery Areas (PNA).
	Monitoring is required to verify the installed performance of the BMP. Alternative stormwater treatment measures must be available and must be installed, upon DWQ's determination that the BMP has failed.
	An operation and maintenance plan is required. The system must be designed by a professional licensed in North Carolina. The design professional must also certify that he inspected the system during construction; that the installation conformed to the approved plans and specs; and that the system meets the requirements of the rules. Additional design and performance monitoring requirements will be developed
	on a case-by-case basis by DWQ.

Applicant's Initials	Grassed Swales
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.
	The BMP shall be located in a recorded drainage easement with a recorded access easement to a public ROW.
	The design must non-erosively pass the peak runoff rate for the 10-year storm.
	Where practicable, the maximum longitudinal slope shall be 5%. An operation and maintenance plan is required.
	Treatment volume shall be calculated as specified in Section 3 of the NCDENR Stormwater BMP manual.
	Swales shall convey the design discharge while maintaining a 0.5-foot freeboard and without exceeding the maximum permissible velocity.

Applicant's Initials	Stormwater Wetlands
	Sizing shall take into account all runoff at ultimate build-out including off-site drainage.
	Side slopes stabilized with vegetation shall be no steeper than 3:1. Wetland shall be located in a recorded drainage easement with a recorded access easement to a public ROW.

The wetland must draw down in 2-5 days.
Flow through the wetland shall not be short-circuited. It shall be made as lengthy as possible.
A forebay is required.
Overflows shall pass through a minimum 30 feet long vegetative filter, 50-foot filter is required for some projects
Wetlands require pretreatment.
Sizing of wetland is based on storage volume requirements and shall be as described in the NCDENR Stormwater BMP manual section 9.
The minimum treatment volume for a stormwater wetland shall be 3,630 ft ³ . Lesser volumes will be approved on a case-by-case basis.
Maximum shallow land depth shall be 1 foot.
Minimum length to width ratio shall be 1:5:1.
The wetland must be stabilized within 14 days of construction.
One of the following two criteria must be met, 1.) The deep pools shall be at
least six inches below the seasonably low water table, or 2.) A clay liner shall
be installed such that the minimum infiltration rate is 0.01 in/hr. Appropriate
topsoil will be added to the clay liner to support plant growth.
 Cattails are not to be planted.



FOR OFFICE USE ONLY	
Date Received:	
Review Fee: \$	
Permit No:	
Date Issued:	

City of Jacksonville Annual Maintenance and Inspection Report

PRC	DIECT INFORMAT	<u>ION</u>				
Pro	ject Name:					
Pro	ect Address:					
<u>ow</u>	NER INFORMATI	<u>ON</u>				
Pro	perty Owner:					
Pro	perty Owner Add	lress:				
Stat	e:	Zip:		Property Owner Tele	phone:	
Fax	:	_ Email _	Address:			
Per	mit Holder's Nan	ne (Speci	F DIFFERENT FROM OW fy the name of the corp			
	mit Holder's Add			Talankan a		
Stat		Zip: _	E.	Telephone: ————————————————————————————————————		
гах				man Address.		
<u>PER</u>	MIT INFORMATI	<u>ON</u>				
1.	Specify the type	e(s) of st	ormwater treatment:	Constructed Wetland	Bioretention	☐Wet Detention Basin
	Dry Detention	n Basin	☐Infiltration Basin	Infiltration Trench	Sand Filter	Other:
	Recorded Book	and Pag	e of the lot for each str	uctural BMP: Book	Page	No.
2.	List any change	s from p	roject that was original	ly approved (attach addition	nal pages if needed):	
3.	Do you have a	copy of t	he original Operation a	nd Maintenance Agreement	? (check one)	
	☐Yes (If yes, s	ubmit th	e attached Operations (and Maintenance verification	sheet.)	
	□No (If no, th	en subm	it a new Operations and	d Maintenance Agreement sig	gned, notarized and	to be registered.)

(Inspector shall be an engineer, surveyor, landsca	pe architect, soil scientist, aquatic biologist or person certified by the North
Carolina Cooperative Extension Service for stormy	water treatment practice, inspection and maintenance
I , (Print or type name of Inspector)	
	and that all structural BMPs are performing properly and are proved maintenance agreement required by the ordinance.
Inspector's Signature:	Date:
SEAL	

OPERATIONS AND MAINTENANCE VERIFICATION

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed in the original Operations and Maintenance Agreement. I agree to notify the City of Jacksonville of any problems with the system or prior to any changes to the system or responsible party.

Owners Name:		
Title:		
Signature:		Date:
ı		, a Notary Public for the State of
',		, a Notally Public for the State of
County of	, do hereby certify that	
Personally appeared before stormwater BMP mainte	ore me this day of enance requirements. Witness my hand	,, and acknowledge the due execution of the forgoin and official seal,
Notary Signature:		
SEAL		
JEAL		
My commission expires:		

Example Annual Maintenance Recommendations

Note: This example of annual maintenance recommendations is being provided by the City of Jacksonville for INFORMATION ONLY. Actual needs will vary based upon site conditions and type, size and capacity of the BMPs.

Task	Frequency	Notes
Remove sediment from Forebay and deep pool (dredging/dipping).	Varies. In stable watersheds, once Every 5-10 years is Typical.	In unstable watersheds (those with active construction), the frequency increases to once a year, assuming the forebay is correctly sized.
Monitor sediment depth in forebay and deep pools.	Once a year.	In a large pond or wetland, a small boat may be needed.
Maintain free-flowing orifice (drawndown hole).	Once per month and after after storm exceeding 2 inches.	Perform inspection regularly. Unclog the hole when needed.
Remove floating trash and debris	Depends on design aesthetics: once a week to once a month	Remove trash whenever the hole is being inspected. Inspect for trash more often if necessary and remove.
Remove vegetation from dam tops and faces.	Once a year.	Dam top and faces should consist of mowed grasses, if vegetated.
Remove invasive species (particularly Cattails).	In years 1 and 2, twice a year (spring and fall). From year 2 onward, once a year (spring).	If spread of cattails is somewhat limited, use the glyphosate-wipe method.
Mow the wet pond perimeter more.	Depends on design aesthetics. Ranges from every 1-3 weeks. Leave grass height about 3"-5".	Wet ponds that are a design amenity will require frequent mowing (1-3 weeks).
Remove muskrats and nutria.	Muskrat/nutria hole inspection and destruction should occur every time the wetland or wet pond is visited.	Contract a professional trapper to remove or use muskrat traps.

Example Retention Pond Inspection Sheet

Note:

This example inspect INFORMATION ONI capacity of the BMP.	LY. Actual n	• •		•				size an	d
Date:		Time			Insp	ection Tear	m:		
Owner Name and Contac	t Information:								
Address:									
Watershed Land Uses: Unknown		Industrial		Commercial		Residentia	I		Other
Were photos taken?		Yes			No				
Vegetation Conditions:	Diverse	Monocultu	ıre	Overgrown		Invasive: ((list)		
Forebay Condition:	No Forebay	Good		Sediments		Overgrown	1		
Forebay depth:				Sediments need	d to be re	emoved? Ye	es N	No	
Berm Condition:		Good More than one	Borr	Too Low	Too Hig		Un-ve	getated	Failing
				stent With Design	Plans? `			-	
Overflow Area:	Sized according	g to plans Y	es	No		Absent			
Inlet Condition:	Normal	Cracking		Erosion		Failing		Overgro	wn
Outlet Condition:	Normal	Cracking		Erosion		Failing		Overgro	wn
Drawdown Hole or Orifice	e Good	Clogged		Unclogged		Can't find		Broken	
Aesthetics:	Trash	Debris		Pests	Mowed		Spoils		Other
Fence Conditions:	Good	Failing		Over-vegetated		Sinkl	noles		
Comments:									
Re Passed Inspection	ecommendation	s		Failed Insp	oection_		_	-	
Renairs Needed:									

Table of Amendments

Section	Current Version	Amended Version	Effective Date	
Table of contents	March 1, 2009	Addition of New State BMP Requirements, added new pages and changed material.	June 2009	
Page 7	Fee schedule for stormwater permitting program.	Added an "off-site Permit" for \$1,000	April 21, 2009	
Page 31	Not present	New Stormwater Submittal Requirements sheet	June 2009	
Pages 41-51	Missing NCDENR State BMP Requirements for various types of BMPs.	Added new NCDENR BMP requirements for BMP's not previously listed.	June 2009	
Pages 41-51	Old MSSD and NCDENR State BMP Requirements for various types of BMPs.	Changed or modified old MSSD BMP requirements to the new NCDENR BMP requirements.	June 2009	
Pages 31-38	Off-Site Permit not present	Added new Off-Site Permit application and Permit	July 2009	
Page 29	Submittal Requirements clarified	Added that certifications can be on 8½X11 sheet and permit needs to be signed and notarized	July 2009	
Page 30	Stormwater Submittal Requirements	Added "Off-Site Permit" to line number 9 and changed page numbers accordingly	July 2009	
Page 13 and Page 23	Section 6. Inspection deleted sample of inspection report	Added that a sample can be found within the Stormwater Administrative Manual	January 2010	
Page 18 and 29	Clarified list of exhibits and deleted sample inspection report	Clarified Exhibit A and B	January 2010	
Page 40	Numbering incorrect for Section 2 Conditions	Corrected Numbering of Section 2 Conditions	January 2010	

Page 41 and 42	Numbering incorrect for Deed Restriction-Protective Covenant	Corrected Numbering for Deed Restriction-Protective Covenant	January 2010
Page 57	Not Present	Added Rainwater Harvesting Systems (Cisterns)	January 2010
Page 60	Not Present	Added Annual Maintenance and Inspection Report	January 2010
Page 64	Not Present	Added Table of City Attorney Interpretations	January 2010
Page 44	Not Present	Added Stormwater Permit Name/Ownership Change Form	February 2010

Table of Interpretations from City Attorney

Per the City of Jacksonville Ordinance #2009-07, "Phase II Stormwater Standards for the City of Jacksonville" (herein referred to as "Ordinance"), Section F.3 Authority for Interpretation, "the City Attorney or his or her designee has authority to determine the interpretation of this ordinance." Below is a summary table of interpretations and detailed interpretations are herein attached and incorporated by reference as if fully set out.

Section	Question	Answer	Effective Date
Section 5.B.1 of	Is the Operation and Maintenance Manual	No, the Operation and Maintenance Manual	1/15/2010
Ordinance #2009-	recorded after final plat approval?	is recorded upon it's execution at the	
07	·	beginning of the permit application process	
		with all required exhibits	